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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/761,927	01/20/2004	Vincenzo DiTomaso	1482-173	2171
20575	7590	12/27/2005		
MARGER JOHNSON & MCCOLLOM, P.C. 210 SW MORRISON STREET, SUITE 400 PORTLAND, OR 97204			EXAMINER TRAN, ANH Q	
			ART UNIT 2819	PAPER NUMBER
DATE MAILED: 12/27/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/761,927	Applicant(s) DITOMMASO, VINCENZO	
	Examiner Anh Q. Tran	Art Unit 2819	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 October 2005.
 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-5,7-10,12-15,17-20,23 and 24 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) ☐ Claim(s) _____ is/are allowed.
 6) ☒ Claim(s) 1,3-5,7-10,12-15,17-20,23 and 24 is/are rejected.
 7) ☐ Claim(s) _____ is/are objected to.
 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
 * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 3-5, 7-10, 12-15, 17-20, and 23-24 are rejected under 35 U.S.C. 102(e) as being anticipated by Xu (6,714,081).

1. Xu shows a bias circuit (2, Fig. 1) comprising:

a reference cell (16, Fig. 1) to generate a bias signal (IM5); and

a first component (6) coupled to the reference cell to adjust the bias signal by replicating (col. 5, lines 15-16) a thermal characteristic of a second component (4) that may be coupled to the bias circuit,

wherein the reference cell includes a feedback loop (12, 6, and 8) to drive a pair of transistors (26) and wherein the first component is arranged in the feedback loop (6 is coupled to 12 and 8 which arranged in feedback loop).

2. Xu shows a bias circuit according to claim 1 wherein the feedback loop comprises a current mirror (18 & 20, col. 5, lines 47-48) coupled between the first component (6) and the reference cell (16).

4. Xu shows a bias circuit according to claim 3 wherein the current mirror is arranged to load the reference cell (load to current IM3).
5. Xu shows a bias circuit according to claim 1 wherein the first component comprises a transistor (6 is a NMOS transistor).
6. Xu shows bias circuit according to claim 1 wherein the reference cell and the first component are coupled together at a summing node (a node among IM4, IM5, and IREF).

Claims 9-10, 12-13. The apparatus described above is applicable to the method claims 9-10, 12-13.

I 5. Xu shows a system comprising:

a first circuit comprising a reference cell (16, Fig. 1) to generate a bias signal, and a first component (6) coupled to the reference cell; and

a second circuit coupled to the first circuit to receive the bias signal, the second circuit comprising a second component (4);

wherein the first component is arranged to adjust the bias signal by replicating a thermal characteristic of the second component (col. 5, lines 15-16);

wherein the reference cell includes a feedback loop (6, 12, and 8) to drive a pair of transistors (26); and

wherein the first component is arranged in the feedback loop (6 is part of feedback loop).

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17. Xu shows a system according to claim 15 wherein the feedback loop comprises a current mirror (20 & 18) coupled between the first component (6) and the reference cell (16).

18. Xu shows a system according to claim 15 wherein the reference cell and the first component are coupled together at a summing node (a node among IM4, IM5, and IREF).

19. Xu shows a system according to claim 15 wherein the first and second components have a matching thermal characteristic (the thermal characteristic is matched since 6 is replica of 4).

20. Xu shows a bias circuit comprising:

bias means for generating a bias signals wherein the bias means comprises a feedback loop (6, 8, and 12) arranged to drive a pair of transistors (26), and

replication means (6) for replicating a thermal characteristic of a component (4) that may be coupled to the bias circuit, wherein the replication means comprises a replication component that is matched to the component that may be coupled to the bias circuit,

wherein the replication component is arranged in the feedback loop (6 coupled to current IM2 and sense by 8 which is feedback to control current IM3).

23. Xu shows a bias circuit according to claim 20 further comprising means (a node among IM4, IM5, and IREF) for combining a signal from the bias means with a signal from the replication means.

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24. Xu shows a bias circuit according to claim 20 further comprising means (12) for controlling the amount of compensation provided by the replication means.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 8, 9, 14, 15, and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Haefner et al (5,699,014).

1. Haefner shows a bias circuit (Fig. 7) comprising:

a reference cell (720 & 725) to generate a bias signal (V730 which is output bias signal V400); and

a first component (601 and 605) coupled to the reference cell to adjust the bias signal by replicating (col. 9, lines 41-45) a thermal characteristic of a second component (300 and 500) that may be coupled to the bias circuit,

wherein the reference cell includes a feedback loop (601, 605, 730, 710 are positive feedback) to drive a pair of transistors (720 and 725) and wherein the first component is arranged in the feedback loop (col. 9, lines 14-17 and col. 11, lines 56-63).

8. Haefner shows a bias circuit according to claim 1 further comprising a clamping circuit (760) coupled to the reference cell.

The limitation of claims 9, 14, 15, and 20 are rejected as above claims 1 and 2.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

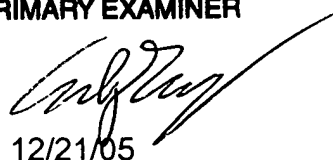
A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh Q. Tran whose telephone number is 571-272-1813. The examiner can normally be reached on M-F (8:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ANH Q. TRAN
PRIMARY EXAMINER



12/21/05